This syllabus contains information about this class. Please read this carefully and keep it for future reference (in case you lose it, a copy of the syllabus will be posted on the class Moodle page). In case you have questions, please do not hesitate to ask me. A good time for questions is right after class or during office hours.

**Instructors:** Javier Perez Alvaro (Office: Math 205A, Phone: 243-5562)
Email: javier.perez-alvaro@mso.umt.edu

**Office Hours:** See [http://www.umt.edu/people/perezalvaro](http://www.umt.edu/people/perezalvaro) for up-to-date office hours

**Prerequisite:** M172 or M182, or consent of instructor

**Moodle Page:** [https://moodle.umt.edu/course/view.php?id=25769](https://moodle.umt.edu/course/view.php?id=25769)
Homework assignments and other information pertinent to this course will be posted at this web site.

**Text:** *Introduction to Linear Algebra*, by Gilbert Strang.

**Learning Outcomes:** The learning goals for this course are:
- Solve systems of linear equations and solve matrix equations;
- Identify linearly dependent and independent sets of vectors;
- Compute bases for column, row and null spaces;
- Represent linear transformations with matrices;
- Compute and use determinants;
- Compute eigenvalues and eigenvectors, and determine if a matrix is diagonalizable;
- Determine and use orthogonality;
- Use linear algebra to solve basic applied problems;
- Prove elementary statements in linear algebra.

**Grading:**
- **Tests:** There will be three 50 minute in-class exams during the semester. All of these exams are closed book exams.
- **Final Exam:** There will be a final exam on all material covered in the course.
- **Homework:** There will be by-weekly homework assignments.

**Assessment:**
- 15% Homework
- 60% Three Exams
- 25% Comprehensive Final Exam
Grade Scale:

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University dates and deadlines: You should be aware of the important dates and deadlines posted by the Registrar’s Office.

Important note: Announcements made in class are considered addenda to this syllabus. Make sure you stay informed as to the progress of the class.

Honesty: All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at http://www.umt.edu/vpesa/Dean of Students/default.php.

Accommodation: The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors and Disability Services for Students (DSS). If you think that you may have a disability adversely affecting your academic performance, and you have not already registered with DSS, please contact DSS in Lommassen 154. I will work with you and DSS to provide an appropriate accommodation.